	Application No.	Applicant(s)
Notice of Allowability	10/630,756	KOSANOVIC ET AL.
	Examiner	Art Unit
	Joseph P. Hirl	2129
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <i>November 10, 2007</i> .		
2. The allowed claim(s) is/are <u>1-8, 10-22</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35.U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948)		
	Paper No./Mail Da	ate
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	9.	PRIMARY EXAMINER CHNOLOGY CENTER 2100

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Reasons for Allowance

1. Claims 1-8 and 10-22 are considered allowable since when reading the claims in light of the specification (MPEP § 211.01) or In re Sneed, 710 F.2d 1544, 1548, 218 USPQ 385, 388 (Fed. Cir. 1983), none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independent claim 1, including "processing resources" related to MIPS (millions of instructions per second) resources of DSPs (digital signal processors), microcontrollers, or ASICs (application-specific integrated circuits) (supported at e.g., page 5, lines 12-14), processor represented by a Digital Signal Processor (supported at e.g., page 4, line 18), scaling rules for a fuzzy inference system (supported at e.g. page 2, line 13), the importance of at least one said function instance where resources are re-ordered depending on such importance (supported at e.g. page 3, lines 12-14), such references constitute definitive considerations by association related to functionality of the reference claim 1. Further, such processor with limited resources utilizes a fuzzy inference system to dynamically determine function ranking and appropriate resource allocation to such functions. Claim 13, inter alia, limits to a function ordering module and a resource allocator represent similar resource allocation using a fuzzy inference system to rank relative importance of functions.

The closest prior art (Breining, IEEE, A Robust Fuzzy Logic-Based Step-Gain Control for Adaptive Filters in Acoustic Echo Cancellation) facilitates acoustic echo cancellation using an adaptive filter inverted and added to a source signal. Breining's fuzzy system does not produce step-gain directly but calculates a factor that receives

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further adjustment to yield a step-gain. While step-gain represents resource control, such process does not represent function ranking and corresponding resource allocation. Inter alia, Breining is time dependent and mono dimensional whereas the applicant's invention is multidimensional and not time sequenced.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

3. Any inquiry concerning this information or related to the subject disclosure should be directed to the Primary Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 5:30 a.m. to 4:00 p.m.

As detailed in MPEP 502.03, communications via Internet e-mail are at the discretion of the applicant. Without a written authorization by applicant recorded in the applicant's file, the USPTO will not respond via e-mail to any Internet correspondence which contains information subject to the confidentiality requirement as set forth in 35 U.S.C. 122. A paper copy of such correspondence will be placed in the appropriate

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patent application. The following is an example authorization which may be used by the applicant:

Notwithstanding the lack of security with Internet Communications, I hereby authorize the USPTO to communicate with me concerning any subject matter related to the instant application by email. I understand that a copy of such communications related to formal submissions will be made of record in the applications file.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, David R. Vincent can be reached at (571) 272-3080.

Commissioner of Patents and Trademarks,

Any response to this office action should be mailed to:

Washington, D. C. 20231;

Hand delivered to:

Receptionist,

Customer Service Window,

Randolph Building,

401 Dulany Street,

Alexandria, Virginia 22313,

(located on the first floor of the south side of the Randolph Building);

or faxed to:

(571) 273-8300 (for formal communications intended for entry.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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Business Center (EBC) at 866-217-9197 (toll free).

Jøseph P. Hirl

Primary Examiner November 29, 2007